

DART SERVICE INSTRUCTION

**TO AMEND INSTALLATION INSTRUCTIONS IIN-D350-636 REV. J
AND INSTRUCTIONS FOR CONTINUING AIRWORTHINESS ICA-D350-636 REV. 3
REF. FAA STC: SR00646SE
REF. CANADIAN STC: SH99-7
REF. EASA STC: 10033942**

1.0 PURPOSE

The purpose of this service instruction is to introduce the D350-636-111/-113 Wearplate Kits.

The D350-636-111 Wearplate Kit replaces elements of the D350-636-011/-012/-013/-014 Skidtubes and elements of the D350-636-041/-043/-045 Wearshoe Kit and is designed to improve grip on low friction surfaces such as ice. The components in the D350-636-111 Wearplate Kit are defined in the parts list in Section 2.0.

The D350-636-113 Wearplate Kit replaces elements of the D350-636-015/-016/-017/-018 Skidtubes and elements of the D350-636-047 Wearplate Kit and is designed to improve grip on low friction surfaces such as ice. The components of the D350-636-113 Wearplate Kit are defined in the parts list in Section 2.0

2.0 PARTS LIST

QTY -111	QTY -113	Part Number	Description
X		D350-636-111	WEARPLATE KIT
	X	D350-636-113	WEARPLATE KIT
4		D4923-041	WEARPLATE ASSY
2		D4933-041	WEARPLATE ASSY
2	2	D4934-041	BLADE ASSY
	2	D5146-041	WEARPLATE ASSY
24		AN3C5A	BOLT
	8	AN3C36A	BOLT
	8	MS21043-3	NUT
24	16	NAS1149C0332R	WASHER (AN960C10)

B	ADD D350-636-113 WEARPLATE KIT	DB	14.08.21
A	NEW ISSUE	DB	13.09.11
REV.	DESCRIPTION	BY	DATE
DESIGN	DB	DART AEROSPACE USA, INC. KENT, WA	
DRAWN	DB		
CHECKED	<i>MKa</i>	DRAWING NO.	REV. B
MFG. APPR.	N/A	WEARPLATE INSTALLATION SHEET 1 OF 4	
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	DSI 9662	NTS
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3.0 WEIGHT AND BALANCE

The following are the net weight increases associated with the D350-636-111 and D350-636-113 Kits.

Installation	Weight	LONGITUDINAL		LATERAL (STD GEAR)		LATERAL (HIGH GEAR)	
		Arm	Moment	Arm	Moment	Arm	Moment
*D350-636-111 WEARPLATE KIT	3.82 lb 1.74 kg	132.1 in 3.4 m	504.6 in-lb 5.9 m-kg	0	0	0	0
**D350-636-113 WEARPLATE KIT	1.8 lb 3.96 kg	123.2 in 3.15 m	221.8 in-lb 12.5 m-kg	0	0	0	0

* Weight added to relevant skidtube installation when D350-636-111 Wearplate Kit is installed as replacement on D350-636-011/-012/-013/-014 Skidtubes.

**Weight added to relevant skidtube installation when D350-636-113 Wearplate Kit is installed as replacement on D350-636-015/-016/-017/-018 Skidtubes.

4.0 INSTALLATION OF D350-636-111 WEARPLATE KIT

- 4.1 Refer to Figure 1 on sheet 3 of this Service Instruction. Remove and retain the components indicated per ICA-D350-636, Sections 32.3 and 32.4. Ensure the AN8 fasteners are serviceable.
- 4.2 Inspect skidtube per ICA-D350-636.
- 4.3 Refer to Figure 2 on sheet 3 of this service instruction. Install the D4934-041 Blade Assy. Torque the AN8C21A bolts to 480-690 in-lbs (54.2-78.0 N-m).
- 4.4 Refer to Figure 2 on sheet 3. Install the D4923-041 Wearplate Assy and the D4933-041 Wearplate Assy as shown. Torque the AN3C5A bolts to 15-25 in-lbs (1.7-2.8 N-m).
- 4.5 Repeat this procedure for the other Skidtube.
- 4.6 Adjust Weight and Balance per Section 3.0 of this Service Instruction.

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CHECKED	<i>mLee</i>	DRAWING NO.	REV. B
MFG. APPR.	N/A	WEARPLATE INSTALLATION SHEET 2 OF 4	
APPROVED	<i>WJP</i>	TITLE	SCALE
DE APPR.	<i>WJP</i>	DSI 9662	NTS
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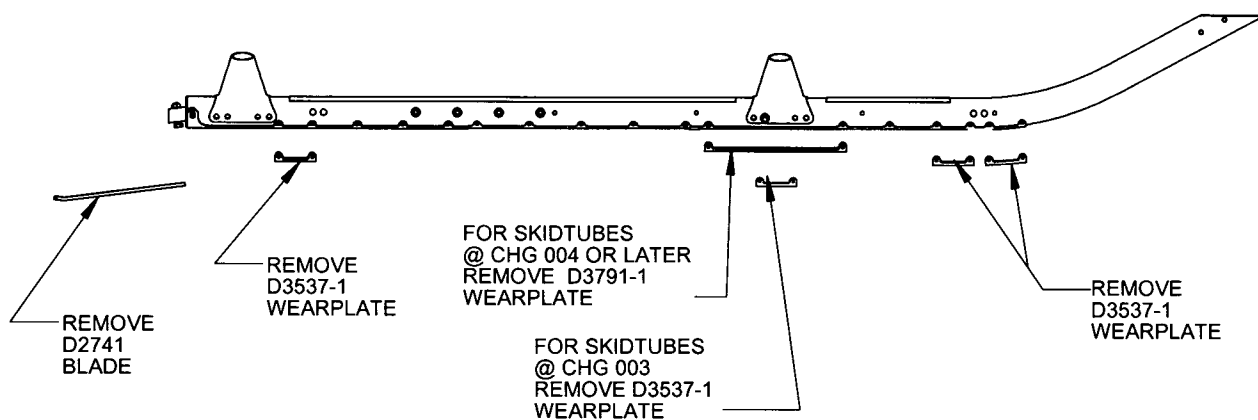


FIGURE 1: BLADE/WEARPLATE REMOVAL

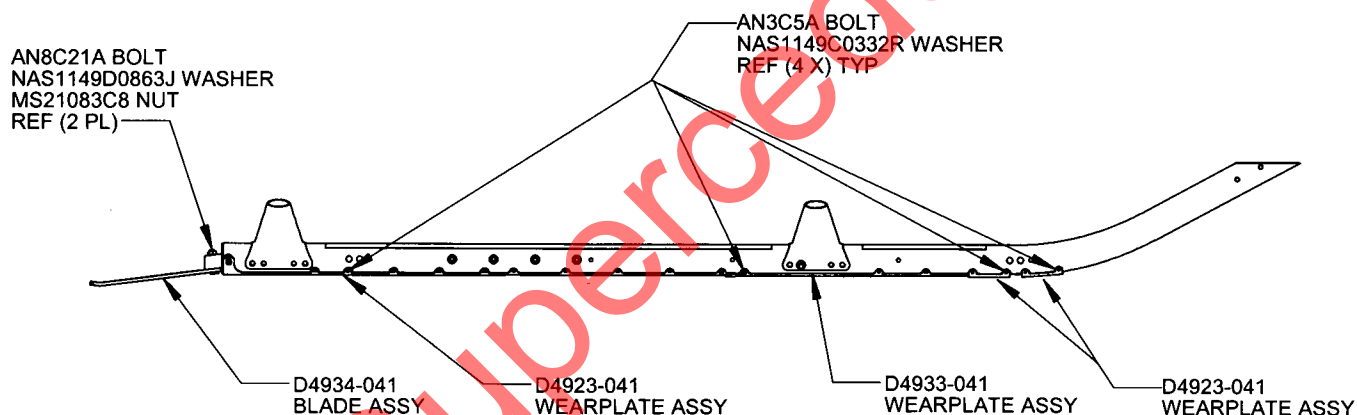


FIGURE 2: D350-636-111 WEARPLATE INSTALLATION

NOTE: THE 2 x D4923-041 WEARPLATES CAN BE INSTALLED IN ANY 2 OF THE 3 LOCATIONS INDICATED IN FIGURE 2 ABOVE. A PARTIAL INSTALL OF THE COMPONENTS PROVIDED IN THE D350-636-111 KIT IS ACCEPTABLE AS LONG AS THE INSTALLATION IS THE SAME ON BOTH SKIDTUBES.

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MFG. APPR.	N/A	WEARPLATE INSTALLATION SHEET 3 OF 4	
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5.0 INSTALLATION OF D350-636-113 WEARPLATE KIT

- 5.1 Refer to Figure 3 below. Remove and retain the components indicated per ICA-D350-636, Sections 32.3 and 32.4. Ensure the AN8 fasteners are serviceable.
- 5.2 Inspect skidtube per ICA-D350-636.
- 5.3 Refer to Figure 4 below. Install the D4934-041 Blade Assy. Torque the AN8C21A bolts to 480-690 in-lbs (54.2-78.0 N-m).
- 5.4 Refer to Figure 4 below. Install the D5146-041 Wearplate Assy as shown. Torque the AN3C36A bolts to 15-25 in-lbs (1.7-2.8 N-m). Torque the AN8C35A bolt to 480-690 in-lbs (54.2-78.0 N-m).
- 5.5 Repeat this procedure for the other skidtube.
- 5.6 Adjust Weight and Balance per Section 3.0.

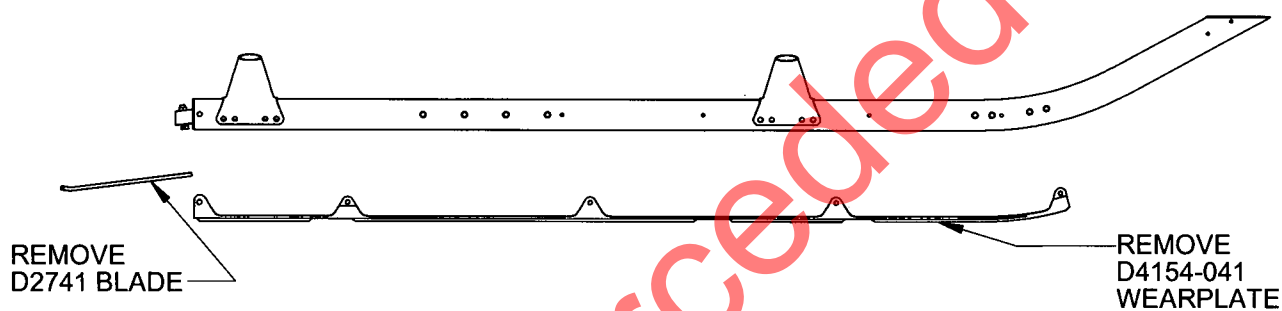


FIGURE 3: BLADE/WEARPLATE REMOVAL
(RETAIN FASTENERS)

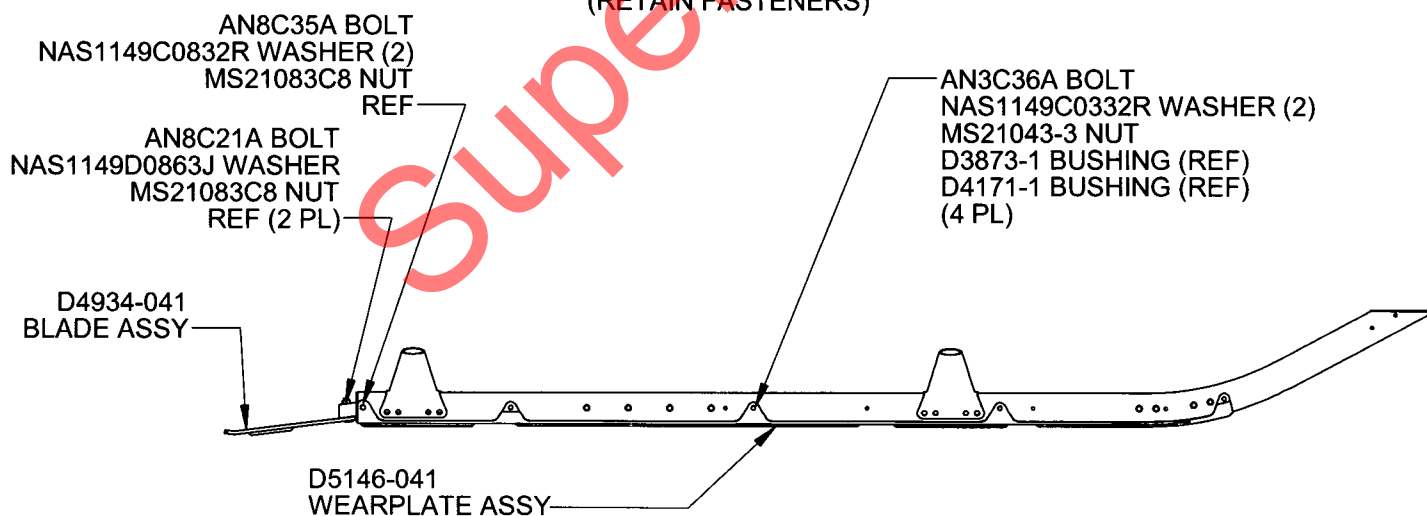


FIGURE 4: D350-636-113 WEARPLATE INSTALLATION

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MFG. APPR.	N/A	WEARPLATE INSTALLATION SHEET 4 OF 4	
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